**☑** 003

## In the Claims:

(Currently Amended) A method of measuring optical signal power in an optical signal, comprising:

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receiving optical signals at a wavelength select switch;

coupling a received optical signal through the wavelength select switch to a power meter; measuring a power level of the optical signal passed through the wavelength select switch using the power meter;

passing a subset of the optical signals through the wavelength select switch at substantially the same time; [[and]]

measuring power in the subset of optical signals using the power meter; and displaying an indication of the optical signal power in the optical signal on a monitor to a system administrator.

- 2. (Canceled).
- 3. (Original) The method of claim 1 wherein the optical signals comprise different wavelengths of optical energy.
- 4. (Original) The method of claim 1, further comprising: diverting a portion of optical energy on an optical medium to obtain the optical signals.
- 5. (Currently Amended) The method of claim 4 wherein diverting comprises: using a power splitter to divert a portion of the optical signal power from an incident signal.
- б. (Original) The method of claim 1 wherein the optical system comprises a dense wavelength division multiplexing (DWDM) system.
- 7. (Original) The method of claim 1, further comprising: successively directing other ones of the optical signals through the wavelength select switch to the power meter; and

measuring power in the other optical signals using the power meter.

- 8-9. (Canceled).
- 10. (Original) The method of claim 1, further comprising: determining if the power in the optical signal has crossed a predetermined threshold; and triggering an alarm if the power in the optical signal has crossed the predetermined threshold.
- 11. (Original) The method of claim 1, wherein the optical system includes a transmission medium from which the optical signals are received, and the method further comprises:

controlling an optical amplifier in accordance with the power of the optical signal to regulate optical power of the optical signals on the transmission medium.

12. (Currently Amended) Apparatus for measuring optical signal power in an optical system. comprising:

a wavelength select switch having output ports to selectively pass a received optical signal to one of the output ports wherein the wavelength select switch passes a subset of the optical signals to the one of the output ports at the same time and [[the]] a power meter measures power in the subset of the optical signals; [[and]]

[[a]] the power meter which receives [[the]] an optical signal from [[the]] an output port and measures the power in the optical signal; and

a monitor for displaying an indication of the optical signal power in the optical signal to a system administrator.

- 13. (Canceled).
- 14. (Original) The apparatus of claim 12 wherein the optical signals comprise different wavelengths of light.
- 15. (Original) The apparatus of claim 12, further comprising:

an optical tap that diverts a portion of optical signals incident on an optical medium to obtain the optical signals.

- 16. (Previously Presented) The apparatus of claim 15 wherein the optical tap diverts a portion of power from the optical signals.
- 17. (Original) The apparatus of claim 12 wherein the optical system comprises a dense wavelength division multiplexing (DWDM) system.
- 18. (Currently Amended) The apparatus of claim 12 wherein the wavelength select switch cycles others of the optical signals to the output port and the power meter measures power in the other others of the optical signals.
- 19. (Canceled).
- 20. (Currently Amended) An optical system comprising: an optical medium which carries different wavelengths of optical energy; an optical tap which siphons the different wavelengths of optical energy from the optical medium;
- a wavelength select switch having output ports, which receives siphoned wavelengths of optical energy from the optical tap and which selectively passes more than one of the siphoned wavelengths of optical energy to one of the output ports; [[and]]
- a power meter which receives the more than one wavelength of optical energy from the output port and which measures power in the more than one wavelength of optical energy; and a monitor for displaying an indication of the power to a system administrator.
- 21. (Previously Presented) The optical system of claim 20 wherein the optical tap siphons only a portion of the wavelengths of optical energy from the optical medium.

- 22. (Currently Amended) The optical system of claim 20 wherein the wavelength select switch passes, to another of the output ports, a wavelength that is not included in the at-least-one wavelength the more than one of the siphoned wavelengths.
- 23. (Currently Amended) The optical system of claim 20, further comprising: an optical amplifier which regulates power of the wavelengths of optical energy on the optical medium in response to measured power in the at least one wavelength the more than one of the siphoned wavelengths.